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Liquid | Z4



Acer Liquid Z4 User's Manual

Model: Z160

This revision: 3/2014

Acer Liquid Z4 Smartphone

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Setting up

Unpacking your smartphone

Your new smartphone comes packed in a protective box. Carefully unpack the box and remove the contents. If any of the following items is missing or damaged, contact your dealer immediately:

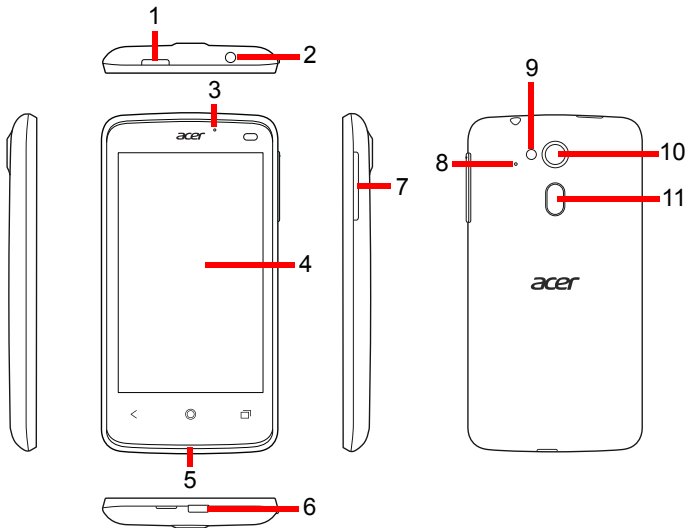
- Acer Liquid Z4 smartphone
- Battery
- Quick Guide
- USB cable
- AC adapter
- Headset



Note: In-box content varies depending on country and region.

Getting to know your smartphone

Views



No.	Item	Description
1	Power button	Press to turn the screen on/off or enter sleep mode; press and hold to turn the smartphone on or off.
2	3.5 mm headphone jack	Connects to stereo headphones.

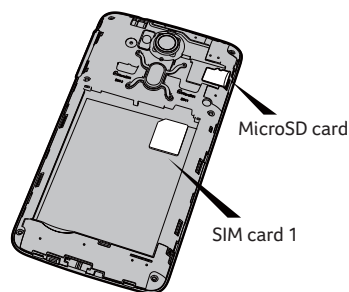
No.	Item	Description
3	LED indicator	Indicates when the phone is connected as a media device.
4	Touchscreen	4-inch, 800 x 480 pixel capacitive touchscreen to display data, phone content and enter information.
5	Phone speaker	Emits audio from your smartphone; suitable for holding to your ear.
6	Micro USB connector	Connects to a USB cable/charger.
7	Volume up/down buttons	Increases or decreases the phone volume.
8	Microphone	Internal microphone.
9	Flash	LED flash for camera.
10	Camera	Auto-focus 5 MP camera for taking high-resolution images.
11	AcerRAPID button	Shortcut button to answer incoming calls. Long press to launch the camera app; short press to launch a designated app (default app is Google Play Music).

Inserting the SIM card and microSD card

To take full advantage of your smartphone's telephony capabilities, you must install a SIM card. The SIM card holder is located at the top of the battery bay.

Additionally, you may wish to increase your smartphone's storage by inserting a microSD card into the slot provided.

1. Insert your fingernail into the micro USB port between the battery cover and the phone. Unclip the cover with your fingernail and lift it off the phone. Insert the micro SIMs and the microSD card as illustrated.
2. Ensure that the micro SIMs and the microSD card are inserted all the way into their slots.



SIM card lock

Your smartphone may come with a SIM card lock, i.e., you will only be able to use the SIM card provided by your network operator. To cancel the SIM lock, contact your network provider.

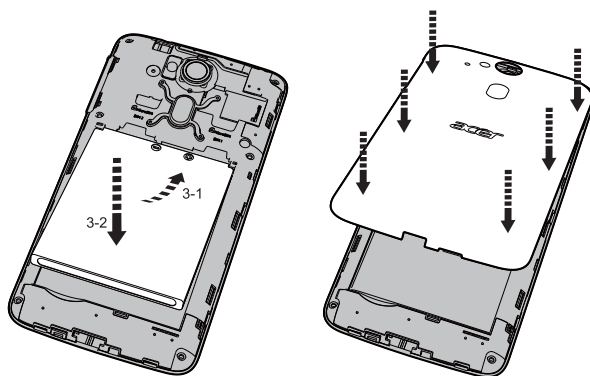
Installing or removing the battery

Your smartphone uses a replaceable battery to provide power. It is packed separately from your smartphone and needs to be inserted and charged before you can use the smartphone.

Installing the battery

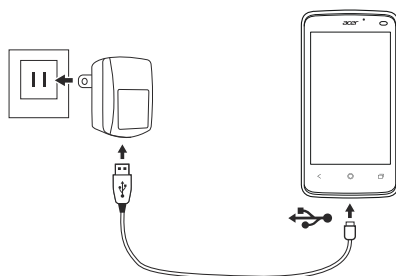
Insert your fingernail into the micro USB port between the battery cover and the phone. Unclip the cover with your fingernail and lift it off the phone.

1. Align the gold-colored connectors on the battery with the connectors at the top of the battery compartment. Replace the battery.
2. Replace the cover and push down until it clicks in place.



Charging the battery

For initial use, you need to charge your smartphone for eight hours. After that, you can recharge the battery as needed. Connect the AC adapter cord to the micro USB connector on your smartphone.



Using your smartphone

Turning on for the first time

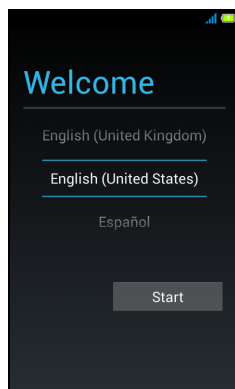
To turn on your smartphone for the first time, press and hold the **Power** button until the screen turns on. You will then be asked to configure some settings before you can use your smartphone.

Follow the onscreen instructions to complete setup.

Sign in to or create a Google account

If you have internet access, your smartphone allows you to synchronize information with a Google account.

During the start-up process, you may create or sign in to your account, which will be used to synchronize your contact list, email, calendar and other information. If you do not yet have internet access, or do not want to use this feature, then tap **Skip**.



Creating multiple Google accounts

You can create and easily access multiple Google accounts. Open the **Application** menu and then tap **Settings > Add account**.

Entering your PIN

When you install a SIM card for the first time, you may need to enter a PIN using the onscreen number pad.



.....
Important: Depending on your settings, you may be required to enter your PIN each time you switch on the phone function.
.....

Activating a new SIM card

If you are using your SIM card for the first time, it may require activation. Contact your network operator for details on how to do this.

Locking your smartphone

If you will not use your smartphone for a while, press the **Power** button to lock access. This saves power and ensures your smartphone does not unintentionally use any services. Your smartphone will lock automatically if it is not used for one minute.

Waking your smartphone

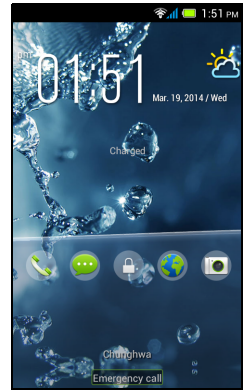
If the screen is off and the smartphone does not react to any taps on the screen or front panel buttons, then it has been locked and is in sleep mode.

Press the **Power** button to wake your smartphone. Unlock your smartphone by sliding your finger horizontally across the screen (it works both ways).

The lock screen extends to either side of the screen, giving you room to add widgets for quick access. To view the extended lock screen, swipe in from the edge of the display.

For additional security, you may set an unlock pattern or choose from several screen locks to access the phone.

Open the **Application** menu and then tap **Settings** > **Security** > **Screen lock**. In Choose screen lock, options include: None, Slide, Face Unlock, Voice Unlock, Pattern, PIN and Password.



Note: If you forget your unlock pattern, please refer to "**Unlock pattern**" on page 45.

Navigating through menus and options

To navigate through menus and options, there are three buttons beneath the screen.

Back



Back



Home



Recent

Tap this button to go to the previous page, hide the keyboard, or to go up one level in a menu.

Home

Tap this button to go directly to the Home screen. Tap and hold this button to open the Search function. You can also get the Google Now app by tapping **Get Google Now**.



Note: For information on Google Now, you may wish to view the Wikipedia page for the app at http://en.wikipedia.org/wiki/Google_Now.

Recent

Tap this button to see recently opened apps. Tap an app to open it. The Float app menu is also located on the bottom.

Using the touchscreen

Your smartphone uses a touchscreen for selecting items and entering information. Use your finger to tap the screen.

Tap: Touch the screen once to open items and select options.

Drag: Hold your finger on the screen and drag across the screen to select text and images.

Tap and hold: Tap and hold an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

Scroll: To scroll up or down the screen, simply drag your finger up or down the screen in the direction that you want to scroll.

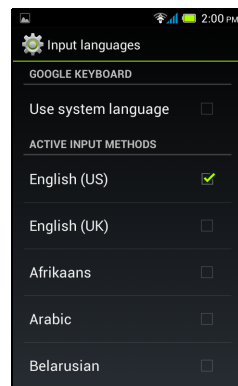
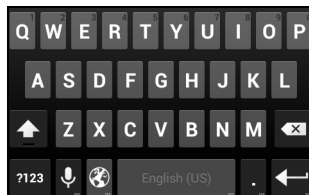
Google keyboard

This is a standard onscreen QWERTY keyboard that allows you to enter text. Tap and hold a key with numbers at the top to select alternative characters, such as letters with accents.

Tap the **?123** key to see numbers and special characters, and then tap **=\<** to see even more.

You can choose another input language and change Google keyboard settings by tapping and holding the microphone key. Alternatively, open the **Application** menu and then tap **Settings > Language & input**. Then tap the **Settings** icon next to Google keyboard > **Input languages**. The keyboard layout changes according to the selected language.

After setting up more than one language, the language being used will be identified on the space bar. Tap and hold the space bar to toggle between multiple input languages.



Text assistance

The Google keyboard has various features that assist you to enter correct text. In the **Application** menu, tap

Settings > Language & input and then tap the **Settings** icon to the right of **Google keyboard**. From here you can enable or disable several keyboard-related settings.

Changing the text input method

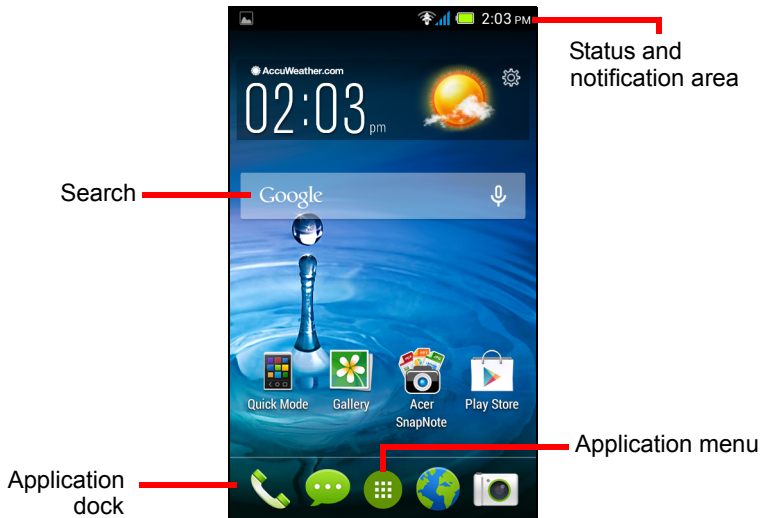
To change the input method, in the **Application** menu tap **Settings > Language & input > Default** and then select your preferred input method.

Predictive text

Google keyboard provides predictive text input for the browser. As you tap the letters of a word, a selection of words are displayed above the keyboard that continue the sequence of letters tapped, or are a close match allowing for errors. The word list changes after every key press. If the word you need is displayed, you can tap on it to insert it into your text.

The Home screen


After booting, your smartphone will display the home screen. This screen gives you quick access to information and simple controls with widgets or shortcuts. These display information such as the time and weather, or provide additional controls and direct access to apps and other frequently used features of your smartphone.




At the bottom of the screen is the Application dock which displays default apps (see **"Changing application dock icons" on page 13** to change these icons). Tap an icon to open the app. Tap the **Application** menu icon in the middle of the Application dock to view your apps (see **"The Application menu" on page 13** for more information). To change apps, see **"Changing application dock icons" on page 13**.

Search

To search for apps, files or for information on the internet, tap the  icon.


Simply enter the text you want to find and tap  or tap one of the suggestions, apps or files shown in the list. You can also choose what Search searches for. Within

Search, tap the **Back** button to hide the keyboard. Tap the **Menu** icon  > **Settings** > **Phone search**. Select the apps you want Search to search.



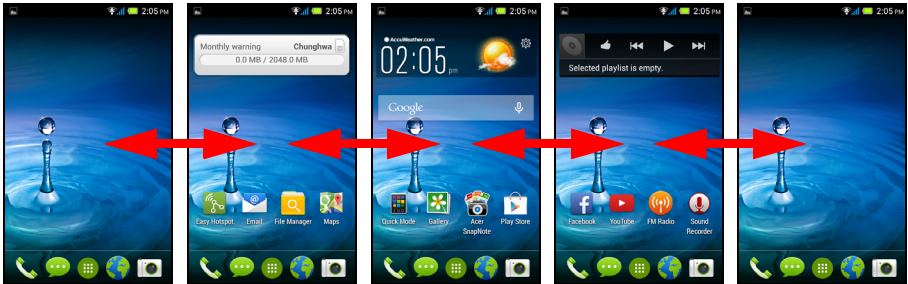
Note: In order to search or browse the internet, you must be connected to a cellular data (if available) or wireless network. See **"Going online" on page 26**.

Voice search


If voice search is available, tap the microphone  and speak your search request. See **"Voice search" on page 26**.

The extended Home screen

The Home screen extends to either side of the screen, giving you more room to add icons, widgets or features. To view the extended screen, slide your finger to the left or right.



Personalizing the Home screen

You may personalize your Home screen by adding or removing application shortcuts or widgets, and by changing the wallpaper. Tap and hold any open area on the Home screen. From here, you can customize the extended Home screen. Click  to add an extra panel to the extended Home screen or remove a panel by tapping, holding and dragging the selected panel to **Remove**.

Adding and removing shortcuts and widgets

To add shortcuts or widgets, tap the **Application** menu icon in the bottom-center of the Home screen.

Tap **Apps** to see a list of shortcuts to apps you can drag to a Home screen.

Tap **Widgets** to see apps and links (such as custom shortcuts, contacts or bookmarks) that you can add to a Home screen. Widgets are apps that display constantly-updated information or quick shortcuts to apps or special functions.

To move an app or widget to the Home screen, tap and hold an item until it is selected. The Home screen will open. Drag the item to any free area on the screen. To view information about the app or widget, drag it to the **App info** icon at the top of the screen.

To move the item to a different Home screen, drag it to the side of the screen, the Home screen will switch to the screen in that direction. Release the item when it is positioned correctly.

To remove a shortcut or widget from the Home screen, tap and drag it to **Remove** at the top of the screen.



Adding or removing folders

You can also add folders to your Home screen. To create a new folder drag and drop an application icon onto another application icon in the Home screen. This will create an Unnamed Folder. Tap the folder icon and then tap the name of the folder to rename it.

To delete an application shortcut from a folder, tap on the folder icon to display the apps inside and then tap and hold the application icon that you want to remove. Drag and drop the icon on **Remove** that will appear at the top of the screen.

To delete a folder, tap and hold on the folder and then drag and drop the folder on **Remove** that will appear at the top of the screen.

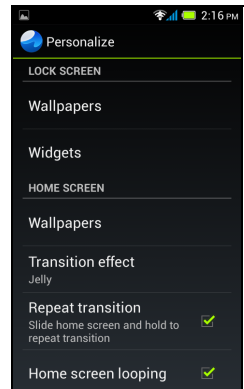
Changing application dock icons

You can set icons for installed apps in the Application dock. Open the **Application** menu and find the app you want to add. Tap and hold the icon, then drag it to any open position in the dock. Dragging the new app to an existing dock icon will create a folder for both icons.

To remove an icon from the dock, tap and hold the icon to select it. Either drag the icon to a different location outside the dock or to **Remove** at the top of the screen.

Changing the wallpaper

From the **Application menu**, tap **Settings > Personalize** to change the wallpaper for your lock screen and Home screen. Tap **Wallpapers** to change the lock screen and home wallpaper. You can choose from images stored in the Gallery, standard wallpapers, Live Wallpapers featuring animated or interactive backgrounds, or Video Wallpapers enabling you to use videos as your background.




Changing Home screen settings

From the **Application menu**, tap **Settings > Personalize**. Use the various settings to personalize the Home screen by choosing your Transition effect and enabling/disabling the Repeat transition and Home screen looping.

The Application menu

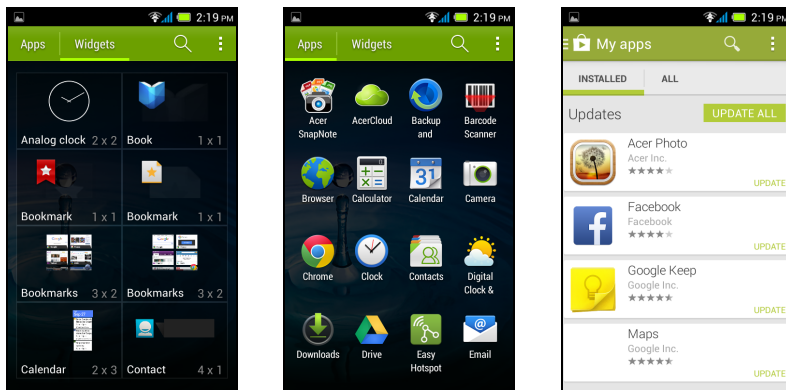


Note: All images are for reference only. The apps installed on your device can be different from the apps shown in illustrations.

To access the **Application** menu, tap  in the center of the dock on the Home screen. Apps are displayed in alphabetical order. Swipe the page to the left or right to see more apps. When you are on the last page of apps, swipe to the left to see widgets available on your phone, or tap **WIDGETS** at the top of the page.

To quickly jump to apps or widgets, tap **APPS** or **WIDGETS** at the top of the **Application** menu.

Tap the **Play Store** icon to open Google Play to view and purchase apps and/or digital media. From the Play Store, tap **APPS** > **Apps** > **My apps** to view all of your installed apps.



Status and notification area

The Notification area is at the top of the screen.

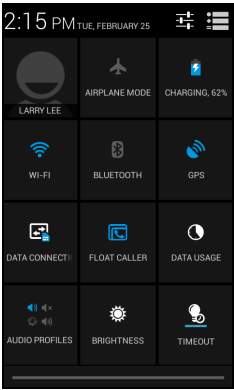


This area contains a variety of icons to inform you of your phone's status. The left side of the Notification area displays event icons that indicate a new event (such as a new message).

Drag the **Notification** area down the screen to view more information about new events.














Tap  to clear the notification area.

Tap  to adjust commonly used settings








Connection icons

The icons on the right side indicate signal strength, connection, battery status and the time.

Icon	Description	Icon	Description
	Connected to GPRS mobile network		Roaming
	Connected to EDGE mobile network		Cellular signal strength
	Connected to 3G mobile network		Mobile data transferring
	Connected to HSDPA network		Connected to a wireless network
	Bluetooth is connected		No wireless signal
	Bluetooth is disconnected		Airplane mode (Wireless connectivity disconnected. Please disable airplane mode before trying to make a call.)
	USB tethering is activated		

Battery icons

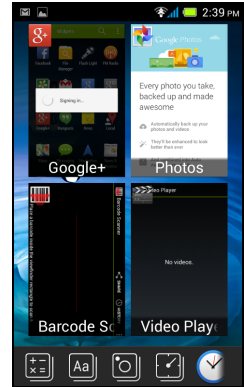
Icon	Description	Icon	Description
	Battery is very low		Battery is partially drained
	Battery is low		Battery is full
	Battery is charging		

Multitasking

You can have multiple apps open at the same time. Tap the **Recent** button to see recently opened apps. To open a new app, tap the **Home** button to return to the Home screen, then start the new app.

To prolong battery life, it is better to close an app when you've finished using it. You can do this three ways:

1. Press the **Back** key until the app is closed
2. Tap the **Menu** icon and select **Exit** (if available)
3. Press the **Recent** button and swipe the icon off the screen.

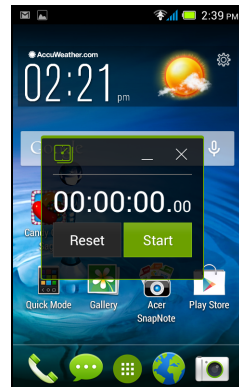
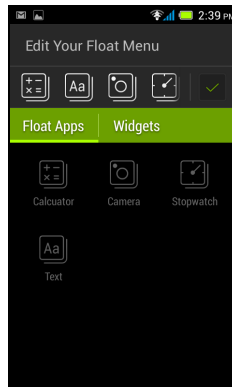


Acer Float

Tap the **Recent** button for the Float menu at the bottom. Acer Float allows you to open an app as a "floating" window, which can be moved around within the display. You may add up to four Float apps to the Float menu. You can also edit your Float

menu by tapping on the settings icon  and adding/removing Float apps.

Float apps include: Float Browser, Float Buttons, Float Calculator, Float Camera, Float Dialer, Float Maps, Float Notes, Float Stopwatch and Float Text. Widgets can also be added to the Float menu by tapping on the **Widgets** tab.



AcerRAPID

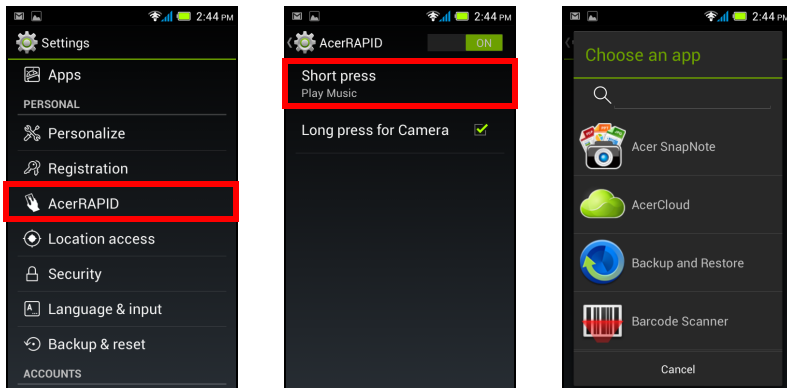
The AcerRAPID button is located directly below the camera.

Long press the AcerRAPID button to launch the camera app. While the camera app is open, push the AcerRAPID button to take a picture. Long press to take four continuous pictures.

Short press the AcerRAPID button to launch the Google Play Music app. To change the app for the short press function, open the **Application** menu and tap **Settings** > **AcerRAPID** > **Short press** and choose an app.

Tap the **ON/OFF** switch to enable or disable AcerRAPID.

The AcerRAPID button also allows you to answer incoming calls quickly without needing to touch the screen. To accept an incoming call, press the AcerRAPID button.







Note: Only Short press function can be changed. Long press for Camera can be disabled, but can't be changed.

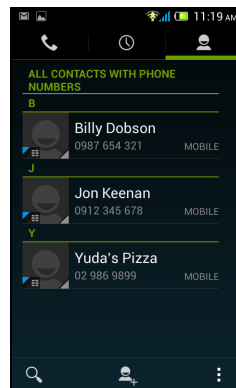
Managing contacts

Managing your contacts


Your smartphone features an address book that allows you to save contacts to your phone's internal memory, your SIM card, or your Google account.

From the Home screen tap **Phone**  and tap  to view your contacts. If you don't have any contacts stored on your phone, you can import contacts from your Google account, SIM, or SD card.

You can also add a new contact by tapping  to add a contact,  to search for a contact, or tap the **Menu** icon to open the menu.



Adding a contact


Tap  to add a new contact. If you have a barcode scanner app, you may also scan a person's profile barcode to add the person to your contact list or group.

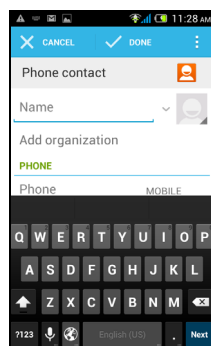
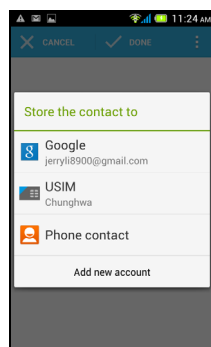
To create a contact, first choose where you want to store the contact's information. You will then be asked to enter the contact's information, such as name, address, and phone number.

You may scroll down the page and tap **Add another field** to add things such as:

- IM addresses
- Add any personal notes about the contact
- Phonetic name
- Link a website

To assign an image to your contact, tap the silhouette and select whether to take a photo or select an image from your smartphone's picture gallery. When done, click **Done** at the top of the screen. Tapping on the contacts name will bring

up their profile. Tap  while viewing a contact's profile for a variety of options related to that contact.




Tip: You may also create a contact from an already dialed or received number, see **"Saving a dialed number to contacts"** on page 22.




Making calls

This chapter shows you how to make phone calls, and the various options available to you during your call.


Before making a call




Check that the phone function is on before you make a call. You can confirm the phone status from the Notification area.

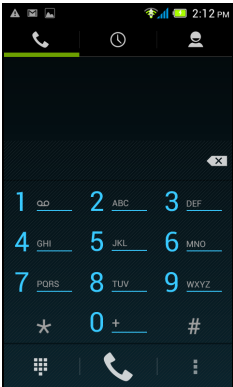
 **Note:** Status and notification icon colors may vary.

Icon	Description
	Not connected to the network: You are unable to make a call.
	Connected to the network: You may make a call.
	Airplane mode: Wireless connectivity disconnected (Wi-Fi, Bluetooth, 2G and 3G). Please disable airplane mode before trying to make a call.

Making a call

 **Note:** The phone function needs to be enabled before the call can be connected (see "Before making a call" on page 19).

1. From the Home screen tap **Phone** . If it's not already visible, search for the phone app in the **Application** menu.
2. Enter the number you wish to dial. If the contact you need is displayed, simply tap the contact name to make a call.
3. Tap  at the bottom of the screen to make the call.
4. To end the call, tap .



Dialing a number from Call log




Your call history can be viewed by tapping the **Call log** tab at the top of the screen. It displays recent received, dialed, and missed calls.

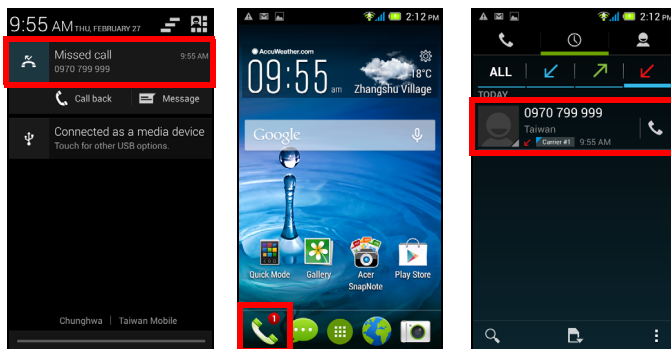
Tap the phone icon next to a contact to redial. To view details of the call, tap the number or contact's name. While viewing the details of a call, tap the trash icon to

remove that call from the call log or tap the **Menu** icon for other options to edit number before making a call.

Viewing missed calls

Missed call notifications are displayed in the following three areas:

1. The Notification area with the missed call icon . Open the **Notification** area and tap the missed call notification to display the missed call details.
2. By the Phone icon  (the number in the box is the number of missed calls). Tap **Phone** from either the Home screen or the **Application** menu to directly display the missed call details.
3. In the Call log, tap the missed calls tab  to display the missed call details.



Making a call to one of your contacts

Calling a contact from the People tab

1. Tap the **People** tab at the top of the screen to view your contacts.
2. Tap on a contact to call them.

Dialing an international number



When dialing international numbers, there is no need to enter the international direct dialing prefix ('00' etc.) before the country code. Simply tap and hold **0+** on the onscreen number pad until **+** appears onscreen.

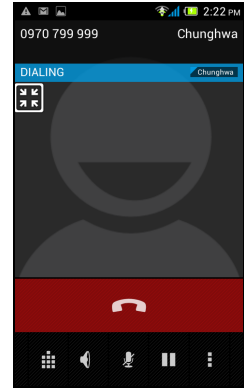


Warning: International call rates can vary greatly depending on the country you are calling and your network provider. We suggest you check all call rates with your network provider, to avoid excessive phone bills. If you are using your smartphone abroad, roaming charges will apply. Consult your network provider for roaming rates specific to the country you are visiting before you leave.


The voice call screen

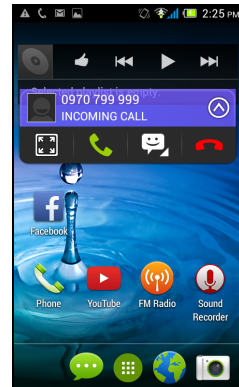
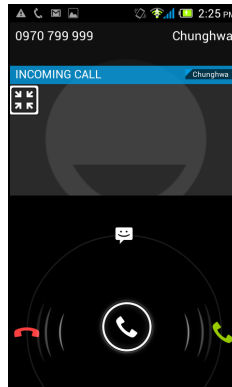
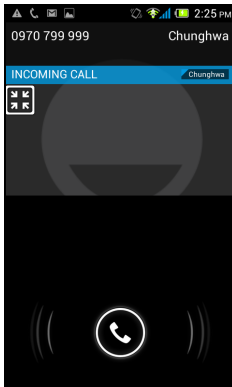
The voice call screen displays after you have dialed a phone number and after you have accepted a phone call. The screen displays the number/contact you are talking to, the call duration and voice call options. You can minimize the call window to appear as a small movable

box instead of a whole screen by tapping the  icon. You can set this "floating" dialog box as the default voice call screen. To do so, tap , tap **Settings** and enable **Float Caller**.



Answering or declining a call






When you have an incoming call, the number will be shown on the screen. Tap the phone icon and slide your finger across the screen to answer or reject the call. To reject the call with a text message, slide your finger up to the  icon and select a message. If the Float Caller option is enabled, the number will be shown as a "floating window". To answer or reject a call with Float Caller, tap the appropriate icon.



Ending a call


To end a call, tap  from the voice call screen.

Voice call options

Icon	Description
	Access the keypad while a call is in progress.
	Speakerphone.
	Mute a call.
	Place the call on hold.
	Add another call.


Saving a dialed number to contacts

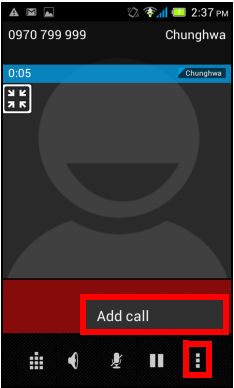
You can save a number you have dialed to your contacts for future use.

1. Select the number from the **Call log** tab, and tap on the contact . You will then be asked if you want to add the number to your contacts.
2. Tap **OK**.
3. Tap **Create new contact** and select how to complete the action. See **"Adding a contact"** on page 18.

Conference calls

If you have one call on hold and another on line, you can combine both calls to create a conference call.

After the first call is established, tap  and tap **Add call** to start the conference call.



Messaging


This chapter shows you how to set up and use the **Phone messages**, **Social messages** and **Social events** functions of your smartphone.

All SMS and MMS messages are accessed via Messaging. Messaging automatically arranges received and sent messages into threads.


To access Messaging tap  on the Home screen.


Creating a new message

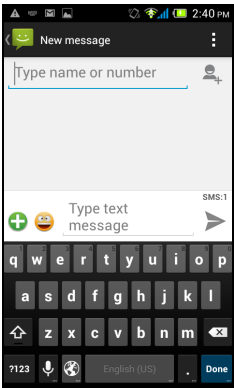
You can use your phone to compose Phone (SMS and MMS) messages.

Tap  to compose a new message.

Tap the **Type name or number** field and enter the recipient's phone number or name. Suggested contacts will be displayed in a drop-down list below the text field. To select a suggested contact, tap the contact's name. To add

several contacts, tap  to display your People list. Once you've selected the desired contacts, tap **OK**.

Enter your message in **Type text message** field. When finished, tap  to send.



Note: SMS messages may be up to 160 characters long. If your message is longer than 160 characters, it will be sent as multiple linked messages. Most phones will automatically join the linked messages to present the recipient with a single long message, however, some older phones do not have this ability.

Tap the **Menu** icon to see what options are available when creating a new message. The options change depending on the status of the message.

Option	Description
Insert quick text	Insert pre-defined text content.
Insert contact	Add a contact to the recipients list.
Add subject	Add a subject to the message.
Discard	Discard the message.

Replying to a message

When a new text message arrives, a message screen displays showing you the message and enabling you to quickly reply. To reply later, tap **Close**. To view the message and all previous messages from the sender, tap **View**.

Message notifications appear in two places: the Notification area and the message icon at the bottom of the phone displays the number of unread text messages.

Tap **Messaging** on the Home screen to view the message list or open the **Notification** area to see a summary of the message. Tap the summary to open the message list.

To reply to an SMS or MMS message, open the message from the message list. Enter your text in the text box labeled **Type text message**. Tap the **Menu** icon to see available options.

Option	Description
Select message	Perform various actions to multiple messages from this contact.
Add shortcut	Puts a link on the Home screen to that contact's messages.
Insert quick text	Insert pre-defined text content.
Insert contact	Add a contact to the recipients list.
Add subject	Add a subject to the message.
Add to contacts	Add the other contact to your contacts list.
Chat settings	Modify various messaging settings.

MMS messages

MMS messages are similar to text messages but also allow you to attach multimedia files such as pictures, audio or video clips. Each MMS message can be up to 300 KB in size.



Note: You need to set up an MMS profile before you can send MMS messages. Normally, your smartphone will set up the profile for you based on information retrieved from your provider.



Tip: Ask your network provider for the necessary information if you need to manually set up the MMS profile.

Receiving MMS messages


When a new MMS message arrives, a message icon appears at the top of the screen and a notification message is displayed.

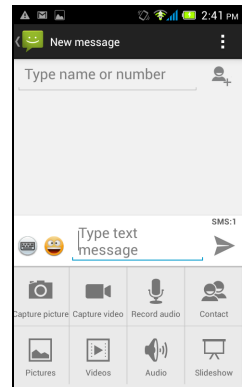


Note: Downloads can take a long time, depending on your connection quality. If you reply or open another application, the download will be stopped.



Important: You may be charged to download message content, especially if you are roaming. Please contact your provider if you have any questions.

1. Open **Messaging** to view a summary of the message.
2. Tap the message to view the content.
3. Tap **Download** to download the message content.
4. To reply to the message, enter your text in the text box labeled **Type text message** and tap the **Send** icon. Simple text replies will be sent as SMS messages. If you wish to attach multimedia and/or other content, tap . You will be presented with a menu of options.
5. When you have finished composing the message, tap the **Send** icon.



Going online

Browsing the internet


In order to browse the internet with your smartphone, you must be connected to a data or wireless network.

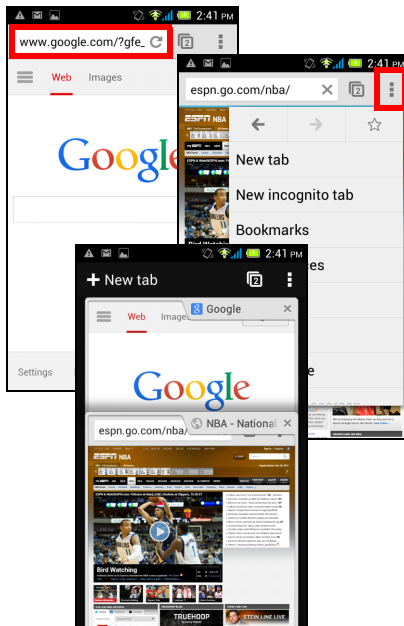
Using the browser

To start browsing, open the **Application** menu and tap **Chrome**. To open a new website, tap the address box at the top of the page. Enter the address using the keyboard and tap **Go**. You can zoom in or out of pages by pinching or reverse pinching.

To navigate forward and backward in your browser's history, view your bookmarks, adjust browser settings, and perform other tasks, tap the **Menu** icon.

Chrome enables you to open multiple

pages. Tap  at the top of any webpage to display all of your open tabs (tap again to close). Tap a tab from the list to open it. To open a new tab, tap **New tab**. The number in the icon represents the number of open tabs.



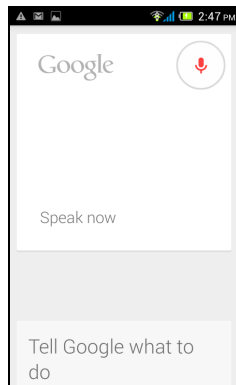
Voice search



Note: Voice search is available only in some regions.

With voice actions, you can send text messages, place calls, send emails, find directions to establishments, automatically call establishments, search the internet and even send a note to yourself using your voice. Open

Voice Search from the **Application** menu, or tap  from the Home screen.





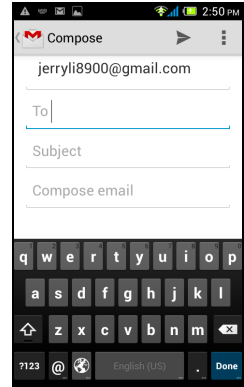
Setting up your Google email

1. Make sure your smartphone is connected to a data or Wi-Fi connection.
2. From the **Application** menu tap **Gmail**.

If you did not enter your Gmail account address and password when you first started your phone, follow the onscreen instructions.

Composing an email

1. Make sure your smartphone is connected to a data or Wi-Fi connection.
2. From the **Application** menu tap **Gmail**.
3. Tap the **Compose** icon .
4. Enter the recipient's email address, the subject and message.
5. When you are finished composing your message, tap .



Setting up Email

Your smartphone enables you to access your email.

Most popular ISPs can be set up in two steps. In the **Application** menu, tap **Email** to start setting up your email account.

If necessary, enter your email address and tap **Manual setup** to enter the parameters manually. Tap **Next** to finish the setup process.

Google Play



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Note: Google Play may not be available in all countries and regions.
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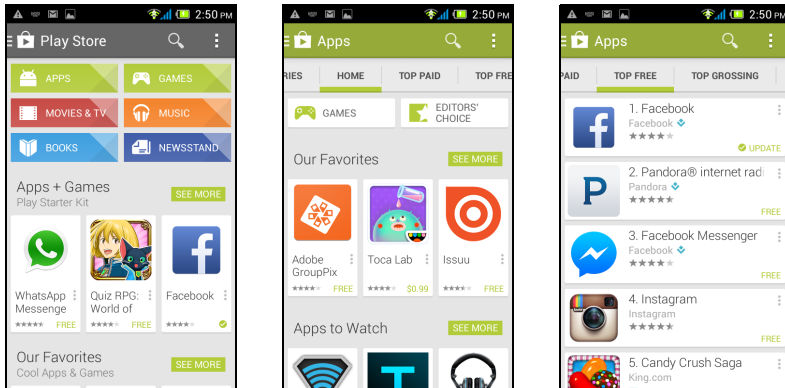
.....
Note: You must activate a Google account before using Google Play. The first time you access Google Play, you will need to read and accept the Terms of Service.
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Tap **Play Store** from the **Application** menu to open Google Play. Here you can obtain a variety of add-on programs and apps to enhance the functionality of your smartphone.



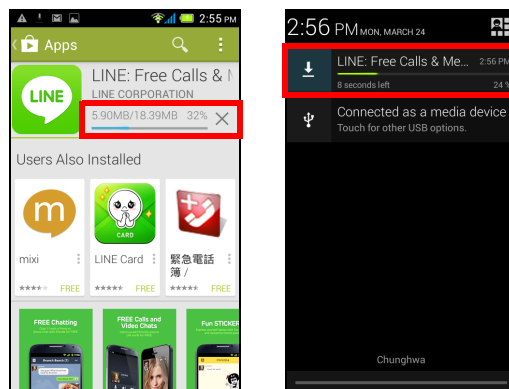
.....
Note: The contents and design of Google Play varies by region. For example, in some regions, you can also browse for and purchase movies, books, magazines, or music. Updates may add new categories or change how to navigate Google Play at any time.
.....

You can browse the store by category or tap the search icon to search for a specific app.



Once you have selected an app, tap the **Install** button to download and install the app. You will be told which services (contact information, wireless access, GPS, etc.) the app requires access in order to function correctly. If none of these services seem unusual, tap **Accept & download** to proceed with the installation.

You may keep track of the download progress from both the app's page and the smartphone's Notification area.



Important: Some apps may require payment before you can download them. You will need to have a Google Checkout account in order to pay for these apps, or a credit card number associated with your Google account.

Using downloaded apps

Once you've downloaded and installed an app, you may find it in the **APPS** or **WIDGETS** sections of the **Application** menu.

Certain apps provide both an application icon and widget, or only provide a widget (with no application icon). See "**Personalizing the Home screen**" on page 12.

Uninstalling downloaded apps

To uninstall an app, go to **Settings** from the **Application** menu and select **Apps**. Tap the app you wish to uninstall, tap **Uninstall** and confirm.

Maps, Navigation, Places and Latitude

Get easy-to-follow directions using Google Maps, view real-time traffic condition and navigate by using spoken, turn-by-turn driving instructions with Navigation, view where your friends are and places of interest and local businesses on Google Maps using Places and Latitude.



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Important: Google Maps does not have information about every location.
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Using the map

Tap **Maps** in the **Applications** menu. Drag the map with your finger to move the map around.

To zoom in or out:

1. Double tap a location on the map to zoom in on the location, and tap once to zoom out, or
2. Touch an area with two fingers at once and spread them apart to zoom in, and pinch them together to zoom out.



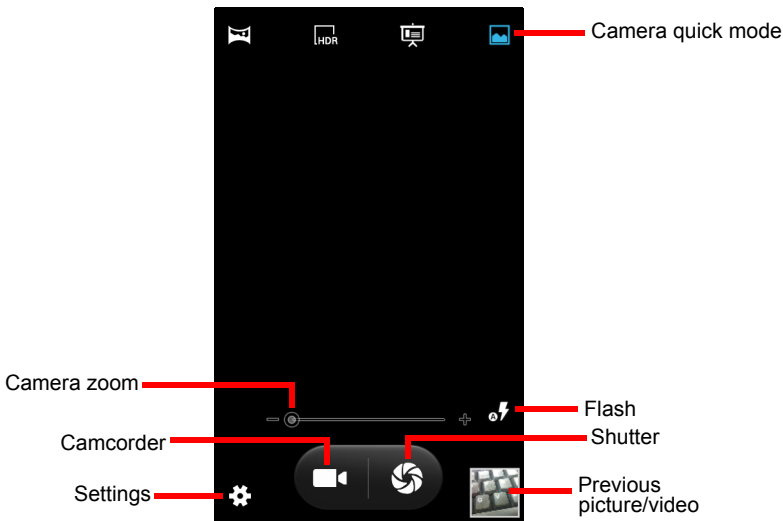
.....
Important: Not all zoom levels are available for all locations.
.....

Using the Camera

Your smartphone features a digital camera mounted on the rear. This section will take you through all the steps in taking photos and videos with your smartphone.

To activate the camera, tap **Camera** on the Home screen, or open the **Applications** menu and tap **Camera**.

Camera icons and indicators





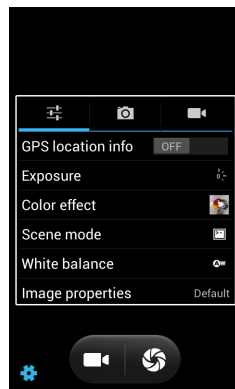
Camera quick modes

Located at the top of the screen is the camera quick mode menu where you can select a variety of different shooting modes. Swipe the camera quick mode menu to the left or right to navigate the selections.

Icon	Mode	Icon	Mode
	Smile shot mode		Panorama mode
	HDR mode		Presentation mode
	Normal mode		

The camera window provides controls on either side of the image. Pinch the screen to zoom in and reverse pinch to zoom out.

Tap  to take a picture. Tap the Previous picture/ video thumbnail to open the gallery. Tap  to open the Settings menu.



Settings menus

General

You may adjust the following:

- Turn **GPS info** on or off: Stores GPS information in the image information.
- **Exposure**: Over- or under-exposes the image.
- **Color effect**: Applies a color effect to the image.

- | | |
|--------------|------------|
| • None | • Mono |
| • Sepia | • Negative |
| • Sepia Blue | |

- **Scene mode**: Adjusts photo parameters for a particular environment.

- | | |
|------------|-------------|
| • Auto | • Night |
| • Portrait | • Landscape |
| • Sports | |

- **White balance**: Compensates for different lighting environments.

- | | |
|------------|----------------|
| • Auto | • Incandescent |
| • Daylight | • Fluorescent |
| • Cloudy | • Tungsten |

- **Image properties**: Adjusts the Saturation, Brightness and Contrast.
- **Anti-flicker**: Set the anti-flicker to Auto, Off, 50 Hz or 60 Hz.
- **Storage**: Set the storage to Internal storage or SD card.

Camera

You may adjust the following:

- Turn **Zero shutter delay** on or off: Takes the photo immediately when you tap the shutter icon.
- Turn **Face detection** on or off: The camera automatically detects faces and focuses on them.
- Set the **Self timer**: Options are Off, 2 seconds or 10 seconds.


- **Continuous shot:** Set the maximum number of photos taken in a single burst.
- **Picture size:** Set the picture resolution.
- **Preview size:** Set the picture preview to Full screen or Standard (4:3).

Camcorder

You may adjust the following:


- Turn the **Microphone** on or off.
- Set the **Audio mode**.
- Set the **Time lapse interval**.
- Set the **Video quality**.

Taking a photo

1. Ensure you have adjusted the settings described above.
2. Frame your subject and steady your smartphone.
3. Zoom in or out as needed.
4. Tap  to take a picture.

Taking a panoramic photo

Panoramic mode allows you to take a series of up to nine photos that the camera application will 'stitch' together to make a single extended image.

1. To take a panoramic photo, slide the menu bar at the top and select panoramic capture mode .
2. Align the camera to take a photo of one end of the panoramic scene (the furthest left, right, top or bottom).
3. Tap the **Shutter** icon to take the first image; then smoothly turn the camera to the left or right to take the next image of the scene.
 - Keep the blue arrow aligned with the dotted arrow as you move the camera. Your smartphone will automatically capture an image along the length of your shot.




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Note: If your photo needs fewer than nine images, tap the tick icon to stop the selection process and process the captured images.

The camera application will process the images and save a single extended image to your smartphone's gallery.



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Note: Panoramic images work best with static outdoor scenes. Objects too close to the camera or with large straight edges may confuse the detection process.

Shooting a video

- 1. Frame your subject and steady your smartphone and zoom in or out as needed.
- 2. Tap  to start taking a video. The icon will turn red to indicate that recording is in progress. Tap the icon again to stop recording.

Supported formats

Type	Formats
Image	JPEG, GIF, PNG, BMP
Video	MPEG-4, H.263, H.264

Viewing photos and videos

After you have taken your photo or video, it is automatically saved. Once you have taken a photo or video, you can view it in Gallery by tapping the Previous picture/video thumbnail. Alternatively, open the **Applications** menu and tap **Gallery**. From Gallery, you can share the file directly using various services.



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Note: Share options vary depending on the file type.
.....

You may also edit photos you have taken by tapping the menu icon in the upper right-hand corner, then tap **Edit**.

Geotagging

Geotagging allows you to store the location where a photo or video was taken right in the photo or video itself.

For the geotag to display, pictures must be taken with **GPS location info** turned on.

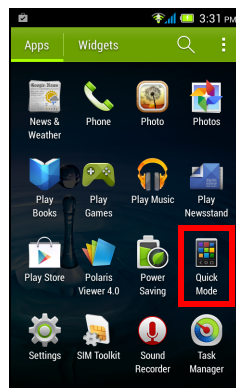
Advanced settings

Changing modes with Quick Mode

Your smartphone contains an app called Quick Mode that makes adjusting the user experience for different people very easy.

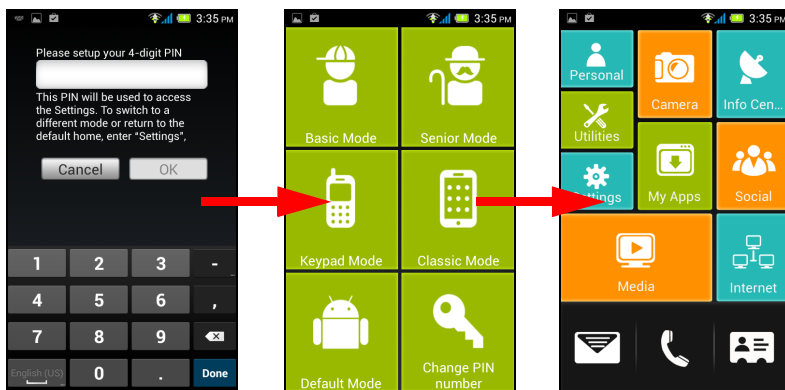
From the **Application menu**, tap **Quick Mode**.

The first time you enter Quick Mode, you'll need to enter a PIN.



Note: The default PIN is "1111".

Several user mode options will display. Follow the onscreen instructions to display your new easy-to-use mode.




To change modes or revert back to default mode, tap **Settings** (in some modes simply represented by the gear icon). Enter your PIN number. Navigate to and tap **Mode Switcher**. To revert back to the phone's default mode, tap **Default Mode**; otherwise, choose another mode to use.

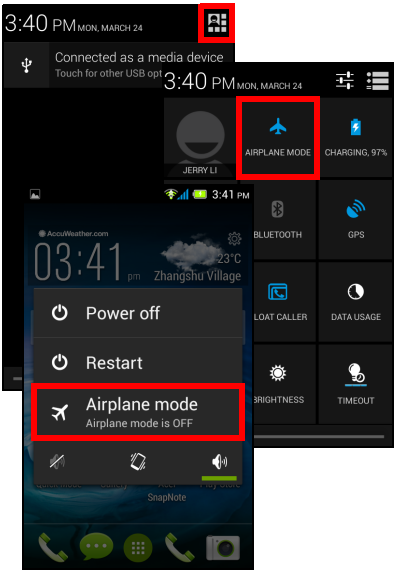
Putting your smartphone in Airplane mode


You can enter Airplane mode (also known as flight mode) to turn off telephone, wireless, and Bluetooth functions and use your smartphone as a handheld device during a flight. Check with your airline to make sure this is permitted onboard.

Switch your smartphone off during takeoff and landing as it may interfere with aircraft electronic systems.

Turning Airplane mode on or off

1. Open the **Notification** area.
 2. Tap  **AIRPLANE MODE**.
- OR-
1. Press and hold the **Power** button until you get the phone options menu.
 2. Tap **Airplane mode** to switch it **ON** or **OFF**.



Note: When Airplane mode is active, the  icon will be displayed in the Notification area.

Restarting your phone

You can restart (reboot) your phone if you find apps are not responding.

1. Press and hold the **Power** button until you get the phone options menu.
2. Tap **Restart**.



Note: If the phone is no longer responding, press and hold the power button and the volume button simultaneously for 10 seconds to restart the phone.

Adjusting settings

This section will show you how to adjust detailed settings for your phone, data, Wi-Fi and Bluetooth connections.

Activating or deactivating connections

Open the **Application** menu and tap **Settings** to manage your connection settings.

Item	Description
Wi-Fi	Turn the Wi-Fi function on or off.
Bluetooth	Turn the Bluetooth function on or off.

Item	Description
Data usage	View an estimate of the mobile data used on the SIM.
Call Settings	Change voice call related settings, internet call related settings, enable or disable Float Caller, enable or disable the proximity sensor and other settings.
More...	<p>Access additional connection settings:</p> <p>Airplane mode: Disable all wireless connections so you can safely use this device onboard an aircraft.</p> <p>VPN: Set up and manage Virtual Private Networks.</p> <p>Tethering & portable hotspot: Share your phone's mobile data connection via USB or as a portable Wi-Fi hotspot.</p> <p>Mobile networks: Set your options for connecting to mobile networks.</p> <p>USB Internet: Share and connect to the internet through a Windows PC via USB cable.</p>



.....
Important: If your phone is in Airplane mode, the option to turn Bluetooth on will be disabled. Please refer to "**Putting your smartphone in Airplane mode**" on **page 35** for instructions on turning Airplane mode on or off.


Adjusting Bluetooth settings

You can use Bluetooth to exchange information between your smartphone and other mobile devices.

Bluetooth connections

For all Bluetooth settings, open the **Application** menu and tap **Settings > Bluetooth**. Here you can switch Bluetooth on or off, set a device name and discoverability. After turning it on, tap **SEARCH FOR DEVICES** to scan for available devices.

To connect to a device, tap the device in the list of available devices. You may be asked to enter a PIN on both devices to establish the connection.

To simply turn on or off Bluetooth, swipe down the **Notification** area, tap  to enter the commonly used settings and tap **BLUETOOTH**.

Internet sharing

Tethering via USB

If you wish to share your mobile internet connection with a computer, you can connect your phone to a PC using the supplied USB cable.

1. Plug the USB sync cable into the micro USB connector on your smartphone.
2. Plug the USB client connector into an available USB port on your computer.
3. Open the **Application** menu and then tap **Settings > More.. > Tethering & portable hotspot > USB tethering**.

Wi-Fi hotspot

You can turn your smartphone into a portable Wi-Fi hotspot to share your mobile internet connection with up to eight clients.

1. Open the **Application** menu and then tap **Settings > More... > Tethering & portable hotspot**. Turn Wi-Fi hotspot **ON**. Tap **Wi-Fi hotspot > Set up Wi-Fi hotspot**.
2. Set the Network SSID and adjust security between None, WPA PSK, and WPA2 PSK. Tap **Save** to finish.



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Note: When your smartphone is serving as a Wi-Fi hotspot, you can't use your phone's applications to access the internet via its Wi-Fi connection.
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Phone network settings

Open the **Application** menu and tap **Settings > More... > Mobile networks** to adjust your network settings. You can turn data connection on or off when roaming, choose a preferred network mode, specify a network operator and define access point names.

Selecting a network

Your phone will automatically detect your carrier/network settings when you insert a new SIM card. However, you may prefer to manually select a network. This may be a good idea when roaming.



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Tip: When you are traveling, manually selecting a network may help to reduce your roaming charges. Check with your home service provider for the network offering the most competitive rates at your destination.
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Note: Contact your service provider should you have any problems obtaining voice mail and the text message service center numbers.
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Data usage control settings

Data usage controls let you monitor total usage by network type and application and then set limits if needed.

To access the Data usage settings, from the **Application** menu tap **Settings > Data usage**.



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Note: To set a data limit, Wi-Fi or Mobile data must be enabled.
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Phone settings

Many phone settings are automatically configured by your smartphone when you insert a SIM card. The device will communicate with your provider and automatically

obtain all necessary settings, such as network name, voice mail and text message center numbers.

You can also view and modify these settings manually through the Call settings screen.

Tap **Phone** from the Home screen. Tap the **Menu** icon > **Settings**.

Sound

To adjust your phone's sound settings, in the **Application** menu tap **Settings** > **Sound**.

Item	Description
Vibrate	Vibrates the device for incoming calls.
Volumes	Adjust the Ringtone, Notifications, Alarm volumes.
SIM ringtone	Sets the default voice calls ringtone for your SIM.
Default notification sound	Set your phone's default notification sound.
Dial pad touch tones	Play tones when using dial pad.
Touch sounds	Play sounds when touching certain UI elements.
Screen lock sound	Play sound when locking and unlocking the screen.
Vibrate on touch	Vibrate when pressing soft keys and on certain UI interactions.

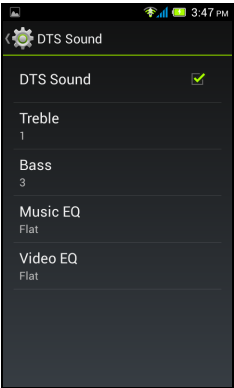
Audio profiles

To choose between four predefined profiles, in the **Application** menu tap **Settings** > **Audio profiles** and choose one.

Item	Description
General	Ring and vibrate
Silent	Silent only
Meeting	Vibrate only
Outdoor	Loudest ring and vibrate

DTS Sound

To adjust your phone's DTS audio settings, in the **Application** menu tap **Settings > DTS Sound**. Tap **DTS Sound** to enable and adjust the Treble, Bass, Music EQ and Video EQ. Tap **DTS Sound** to uncheck and disable.



Display

To adjust your phone's display settings, in the **Application** menu tap **Settings > Display**.

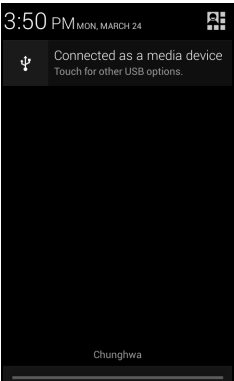
Item	Description
Theme	Change the color scheme.
Auto-rotate screen	Enable rotation of the screen when device is tilted.
Brightness	Adjust screen brightness.
Daydream	Choose various screen saver visuals for when the phone is docked, charging, or both.
Font size	Change the default font size for the UI.
Sleep	Adjust the delay before the screen automatically turns off.
Wireless display	Turn on to find nearby wireless displays.

Connecting to a PC

If you wish to transfer information between your phone and your computer, you can connect your phone to a PC using the supplied USB cable. Plug the USB sync cable into the micro USB connector on your smartphone. Plug the USB client connector into an available USB port on your computer.

Open the **Notification** area, and tap **Connected as media device** to configure the USB options.

You will now be able to see your phone as a drive in your computer's file explorer.



Note: After turning on USB storage, you will not be able to access the files in applications such as Gallery or Music.

Synchronization

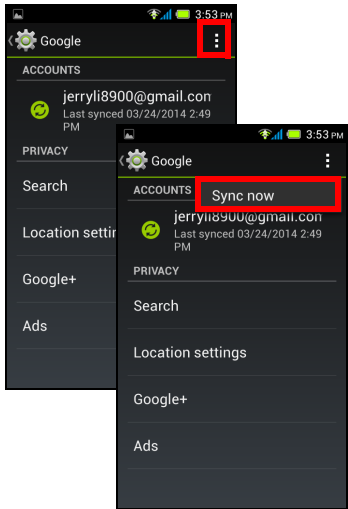
You can sync your calendar, email and contacts on your phone and never worry about losing them again. Sync in real time or adjust it as you please. In the **Application** menu, tap **Settings**. Under **ACCOUNTS**, tap the appropriate account and again under **ACCOUNTS** tap that account's email address to access the synchronization settings.

To add a new account, tap **Add account**. Select the type of account (Corporate, Email, Facebook, or Google) and then follow the onscreen instructions.

Google Sync

In Google, you can set synchronization for Browser, Calendar, Contacts, Gmail, and Google Photos. In your Google account's synchronization settings menu, tap the checkmark next to the item you would like to have auto-sync. Tap again to uncheck any for manual synchronization.

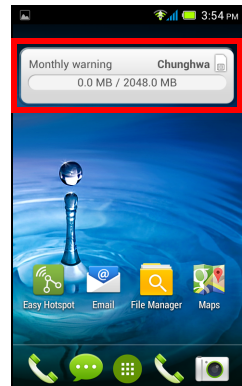
To manually synchronize an item, make sure the item is checked, tap the **Menu** icon and then tap **Sync now**.



Note: You need a Google account to sync your calendar and appointments.

Data usage wizard

The Data usage wizard monitors and logs all of your data usage and data consumption. You can access the Data usage by tapping on the **Data usage wizard** from the Home screen. By checking the Data usage, you can determine which apps were used and how much data was used on any given day.



FM radio

The FM radio allows you to listen to your favorite stations while on the move. Headphones must be inserted to the 3.5 mm jack as it functions as an antenna.

You can access the radio by tapping **FM Radio** from the **Application** menu.

Tap the back icon to turn the radio off.



Multimedia playback

Your smartphone comes supplied with a variety of programs that you can use to enjoy multimedia content.

Adjusting the volume

Adjust the volume of your phone using the **Volume** button on the side of the phone. Alternatively, you can set the Ringtone, Notifications, and Alarms volume by opening the **Application** menu and tapping **Settings > Sound > Volumes**.

Setting the date and time

To set the date and time, open the **Application** menu and tap **Settings > Date & time**.



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Tip: If you travel frequently or live in an area that uses daylight saving time, activate **Automatic date & time** from this menu. This will enable your smartphone to set the date and time based on information it receives from the network.
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Setting alarms

There are two predefined alarms on your phone by default. Tap **Clock** in the **Application** menu, and then tap the alarm icon in the bottom-left to edit alarm settings. You may:

- Turn the alarm on or off.
- Set the alarm time.
- Set which days to repeat the alarm.
- Set a ringtone.
- Enable or disable vibrate.
- Give it a label.

Changing language and text options

Set your location and language input preferences by opening the **Application** menu and going to **Settings > Language & input**.

Closing an application

To close an active app, in the **Application** menu tap **Settings > Apps**. Swipe over to the **Running** tab, then tap the program you wish to close. Tap **Stop** to close the program.

Uninstalling an app

You can remove programs installed on your smartphone to free up extra storage memory.

1. In the **Application** menu tap **Settings > Apps**.
2. Swipe over to the **Downloaded** tab.
3. Find the app in the list and tap on it.
4. Tap the **Uninstall** button and then tap **OK**



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Warning! You should only remove programs if you are familiar with the Android operating system.
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Restoring to factory settings

You may perform a clean boot to restore your smartphone to the factory settings.



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Note: Before performing a clean boot, ensure that your smartphone is not locked. Press any key or tap the screen to see if the phone responds.
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Warning! You should only perform a clean boot when all other options have failed to restore your smartphone to an operational state.
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Warning! This will erase all your personal information, any contacts stored on your phone and any programs you installed.
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If your phone is responding to screen input, then open **Settings** from the **Application** menu. Tap **Backup & reset > Factory data reset > Reset phone** and then **Erase everything** to format your phone.

Accessories and tips

This chapter shows you how to use accessories with your smartphone, as well as provide useful tips for when you are using your smartphone.

Using the headset

Your smartphone is compatible with headsets with built-in microphone for handsfree use when making calls.

To use the headset, plug it into the 3.5 mm headphone jack at the top of the phone.

When the headset is plugged in, all audio is routed to the headset, and the speakers are turned off.

- To answer an incoming call, press the button on the microphone.
- Adjust the volume using the volume up/down button on the smartphone.
- End the call by pressing the button again.

Using a Bluetooth headset

Your smartphone's Bluetooth functions make it fully compatible with all Bluetooth headsets. This allows you to use the unit handsfree when making calls, without the inconvenience of wires.

Creating a new access point

When you need to add another GPRS/3G/EDGE connection on your phone, obtain the access point name and settings (including username and password if required) from your wireless service provider.

1. Open the **Application** menu and tap **Settings > More... > Mobile networks > Access Point Names**, and select an operator.
2. Tap the **Menu** icon and then tap **New APN**.
3. Enter the APN settings. Tap an item to adjust it.
4. When you have finished, tap the **Menu** icon and then tap **Save**.



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Important: Some providers and countries do not allow the use of a smartphone as a modem over HSDPA. Please check with your provider before attempting to do so.
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Inserting a microSD card

Your smartphone features a memory expansion slot that accepts a microSD card to expand memory and storage capacity.

Please refer to "**Charging the battery**" on page 7 for instructions on installing a microSD card.

Appendix

FAQ and troubleshooting

This section lists frequently asked questions that may arise during the use of your smartphone, and gives easy answers and solutions to these questions.

Aspect	Question	Answer
Audio	Why is there no sound coming from the device?	If the headset is plugged into the device, the speaker is automatically shut off. Disconnect the headset. Check that the device volume setting is not muted. Check that the volume control is not at its lowest setting.
	Multimedia files	
	Why can't I view my video files?	You may be trying to view a video that is not supported. Refer to "Multimedia" on page 49 .
	Why can't I play my music files?	You may be trying to play a file that is not supported. Refer to "Multimedia" on page 49 .
System information and performance	How do I check the OS version of my device?	Tap Settings > About phone to check the OS version (Build number) and other hardware and software information.
Power	I can't turn on the device.	The battery power may be depleted. Recharge the device. Refer to "Charging the battery" on page 7 for more information.
RAM / ROM	How do I check the RAM and ROM memory status?	To check the ROM status, tap Settings > Storage . To check RAM status, tap Settings > Apps > RUNNING .
Internal storage	My device's available internal storage is full or almost full.	Uninstall apps to increase available storage. See "Uninstalling an app" on page 42 .

Aspect	Question	Answer
Unlock pattern	I forgot my unlock pattern.	<p>After a certain number of wrong entries, you will be presented with an option to reset your pattern. Tap Forgot pattern? and enter your google account username and password.</p> <p>Note: You must have an active Google account on the smartphone.</p> <p>Alternatively, you restore your smartphone to factory settings. See "Restoring to factory settings" on page 42.</p>
Heat	The phone heats up when charging or making long duration calls.	<p>It is normal for the phone to heat up when charging. When charging is complete, it will return to its normal temperature.</p> <p>It is also normal for the phone to heat up during long periods of use, such as watching a video or a long phone conversation.</p>

Other sources of help

For information on:	Refer to:
Up-to-date information regarding your smartphone	www.acer.com mobile.acer.com
Service enquiries	www.acer.com/support

Warnings and precautions

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use this product when engaging in sporting activities, exercising, or in any vibrating environment which may cause a short circuit or damage, and even a risk of explosion from the battery pack.

CAUTION when listening to music

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

Operating environment



Warning! For safety reasons, turn off all wireless or radio transmitting devices when using your smartphone device under the following conditions. These devices may include, but are not limited to: wireless LAN (WLAN), Bluetooth and/or 3G.

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available. Ensure that the above separation distance instructions are followed until the transmission is completed. Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions.

Pacemakers. Pacemaker manufacturers recommend that a minimum separation of 15.3 cm (6") be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 cm (6") from the pacemaker.
- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

Hearing aids. Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic anti-skid (anti-lock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result. Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmospheres are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Follow any restrictions. Do not use the device where blasting is in progress.

Emergency calls

Important: Wireless phones, including this device, operate using radio signals, wireless networks, landline networks, and user-programmed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider for more information.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Taking care of your smartphone

1. **DO** take care not to scratch the screen of your smartphone. Keep the screen clean. When working with your smartphone, use your finger or fingernail. Never use an actual pen or pencil or other sharp object on the screen surface.
2. **DO NOT** expose your smartphone to rain or moisture. Do not let water enter the circuitry through the front panel buttons or expansion slots. In general, treat your smartphone as you would a mobile phone or other small electronic device.
3. **DO** be careful not to drop your smartphone or subject it to any strong impact. Do not place your smartphone in your back pocket.
4. **DO NOT** expose your smartphone to extreme temperatures. For example, do not leave your smartphone on the dashboard of a car on a hot day or when temperatures are below freezing point. Also, keep it away from heaters and other sources of heat.
5. **DO NOT** use or store your smartphone in any location that is dusty, damp or wet.
6. **DO** use a soft, damp cloth to clean your smartphone. If the surface of the screen becomes soiled, clean it with a soft cloth moistened with diluted window-cleaning solution.
7. **DO NOT** press down on the screen with force, otherwise you may crack the screen.

Specifications

Performance

- MT6572 1.3 GHz dual-core processor
- System memory:
 - 512 MB of RAM
 - 4 GB of ROM
- Android operating system

Display

- 4" TN TFT LCD, capacitive touchscreen
- 800 x 480 WVGA resolution

Multimedia

Formats supported:

Type	Formats
Audio playback	MP3, AMR, WMA
Ringtone	MP3, MIDI, iMelody, WAVE, WMA
Video recording	3GP, MPEG-4, H.263, H.264
Video playback	3GP, MPEG-4, H.263, H.264, WMV

USB connector

- Micro USB connector
- USB client
- DC power-in (5 V, 1 A)

Connectivity

- Bluetooth 4.0 with LE
- IEEE Wi-Fi 802.11b/g/n
- GSM 850 / 900 / 1800 / 1900 MHz
- UMTS 850 / 1900 MHz
- HSPA+ / HSDPA / GPRS / EDGE
- GPS
- aGPS

Camera

- Auto-focus 5 MP rear camera with LED flash



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Note: Specification varies depending on region and configuration.
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Expansion

- microSD memory card slot (up to 32 GB)

Battery

- Rechargeable / replaceable Li-polymer battery



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Note: Length of battery operation will depend on power consumption which is based on system resource use. For example, constantly using the backlight or using power-demanding applications will shorten battery life between charges.
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Dimensions

Height	124 mm
Width	64 mm
Thickness	9.7 mm
Weight	122 g (with battery)

Safety

Battery information

Do not use this product in a humid, wet and/or corrosive environment. Do not put, store or leave your product in or near a heat source, in a high temperature location, in strong direct sunlight, in a microwave oven or in a pressurized container, and do not expose it to temperatures over 60 °C (140 °F). Failure to follow these guidelines may cause the battery to leak acid, become hot, explode or ignite and cause injury and/or damage. Do not pierce, open or disassemble the battery. If the battery leaks and you come into contact with the leaked fluids, rinse thoroughly with water and seek medical attention immediately. For safety reasons, and to prolong the lifetime of the battery, charging will not occur at low (below 0 °C/32 °F) or high (over 45 °C/113 °F) temperatures.

The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, buy a new battery. Use only manufacturer approved batteries, and recharge your battery only with manufacturer approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to the AC charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time. If the battery is completely discharged, it may take a few minutes before the charging indicator appears on the display or before any calls can be made.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. These look like metal strips on the battery. This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15 °C and 25 °C (59 °F and 77 °F). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire as they may explode. Batteries may also explode if damaged. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Disposal and recycling information



Do not throw this electronic device into the trash when discarding.

To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from

Regulatory information

RoHS compliance

This product is in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment and its amendments.

FCC regulations

This mobile phone complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This mobile phone has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

RF exposure information (SAR)

This mobile phone meets the government's requirements for exposure to radio waves.

This phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands.

Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

The highest SAR value for US model phones as reported to the FCC when tested for use at the ear is 0.32 W/kg and when worn on the body, as described in this user guide, is 0.70 W/kg.



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Important: Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements.
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While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirements.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of www.fcc.gov/oet/ea/fccid after searching for FCC ID: HLZEMS510 (for US models).

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with accessories that contain no metal and that position the handset a minimum of 1 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 1 cm from your body when the phone is switched on.

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